

SPECIFICATION SHEET

Aluminum Solid Panel

Aluminum veneers are divided into two types according to specifications: aluminum veneers with a thickness of 1.2 mm or less are called aluminum gusset plates (also called aluminum square plates), and aluminum veneers with a thickness of 1.5 mm or more are called aluminum veneers. The aluminum veneer curtain wall is made of high-quality high-strength aluminum alloy plate. Its common thickness is 1.5, 2.0, 2.5, 3.0MM, the model is 3003, and the state is H24. Its structure is mainly composed of panels, ribs and corner codes. The corner code can be bent or stamped directly from the panel, or it can be angled on the small side of the panel. The ribs and the welding screws behind the board (the screws are directly welded to the back of the board) make it a solid whole, which greatly enhances the strength and rigidity of the aluminum veneer curtain wall, ensuring the flatness in long-term use, It ensures the flatness and wind and earthquake resistance in long-term use. If sound insulation is required, efficient sound insulation can be installed inside the aluminum plate.

No	Alloy	Thickness	Width	Length
1	1100	1.2-3.0mm	2000Max	Customized
2	3003	1.2-3.0mm	2000Max	Customized
3	5005	1.2-3.0mm	2000Max	Customized

Chemical composition (%)

Standard: GB/T 3190-2008

Grade	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
1100	0 95 Si+Fe		0.05-0.20	0.05	-	-	-	0.10	-	Rest
3003	0.60	0.70	0.05-0.20	1.0-1.5	-	-	-	0.10	-	Rest
5005	0.30	0.70	0.20	0.20	0.50-1.1	0.10	-	0.25	-	Rest

Mechanical Properties

Standard: GB/T 3880.2-2006

Alloy	Alclad classify	Temper	Sample Temper	Thickness (mm)	Tensile strength R _m /MPa	Yield strength R _{p0.2} /MPa	Elongation/%		Bending Radius ^{*1}
							A _{50mm}	A _{5.65}	
1100	-	H14/H24	H14/H24	1.50-3.00	110-145	95	5	-	0t
3003	-	H14	H14	1.50-3.00	145-195	125	3	-	1.0t
		H24	H24	1.50-3.00	145-195	115	5	-	1.0t
3003	-	H14	H14	1.50-3.00	145-185	120	3	-	1.0t
		H24	H24	1.50-3.00	145-185	110	5	-	1.0t

*1 Coil samples bending 90°, t – thickness of coil

Physical Properties

Property	Value	Unit
Density(20°C)	2.72	g/cm ³
Melting Point	620-650	°C
Thermal Expansion	23.5	(10-6K-1)(20/100°C)
Specific heat capacity	899	J/(Kg.K)(0/100°C)
Modulus of Elasticity	70	GPa
Thermal Conductivity	205	W/(m. K) 20°C
Resistivity	32	nΩ .m

Formability

Very Good

Weldability

Good

Machinability

Very Good

Corrosion Resistance

Very Good

Application

1. Exterior wall decoration
2. Interior wall decoration
3. Beam column
4. Balcony
5. Conference Hall
6. Neighborhood unit



Products



Packing

Shanghai Metal Products are packed and labeled according to the regulations and customer's requests. Great care is taken to avoid any damage which might be caused during storage or transportation. In addition, clear labels are tagged on the outside of the packages for easy identification of the product I. D. and quality information.

- 1) Shanghai Metal Standard
- 2) Customization



